

U.S. Department of Commerce, Patent and Trademark Office

Docket No.:

9955/D01/AGS/LP

Serial No.:

09/970,613

LIST OF RELEVANT ART CITED BY APPLICANT

(Use several sheets if necessary)

Applicants:

Mark Holst, et al

Filing Date:

October 4, 2001

Group:

1764

U.S. Patent Documents

| *Examiner Initial | Document Number | Issue Date | Name | Class | Subclass | Filing Date If Appropriate |
|-------------------|-----------------|------------|------|-------|----------|----------------------------|
| | US-12 | | | | | |
| | US-13 | | | | | |
| | US-14 | | | | | |
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| | US-16 | | | | | |
| | US-17 | | | | | |
| | US-18 | | | | | |
| | US-19 | | | | | |
| | US-20 | | | | | |
| | US-21 | | | | | |
| | US-22 | | | | | |

Foreign Patent Documents

Translation

| | Document Number | Date | Country | Class | Subclass | Yes | No |
|----|--------------------|----------|---------|-------|----------|----------|----|
| Tb | F-6 WO 99/02921 A1 | 01/21/99 | PCT | | | Abstract | |
| | F-7 | | | | | | |
| | F-8 | | | | | | |
| | F-9 | | | | | | |
| | F-10 | | | | | | |

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | |
|----|------|---|
| Tb | OT-4 | Smiley, S.H., et al., "Continuous Disposal of Fluorine", May 27, 1953, Industrial and Engineering Chemistry, Vol. 46, No. 2, pages 244-247. |
| ↓ | OT-5 | Streng, A.G., "The Fluorine-Steam Flame and Its Characteristics", June 1962, Combustion Flame, Vol. 6, pages 89-91. |
| Tb | OT-6 | Hardwick, Steven J., et al., "Waste Minimization in Semiconductor Processing", 1994, Mater. Res. Soc. Symp. Proc., Vol. 344, pages 273-278. |

Examiner

Date Considered

11/25/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

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| U.S. Department of Commerce, Patent and Trademark Office <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; border-radius: 50%; padding: 10px; text-align: center; margin-right: 10px;"> OFFICE OF RELEVANT ART CITED BY APPLICANT (Use several sheets if necessary) NOV 08 2005 </div> <div> (Use several sheets if necessary) </div> </div> | | | | Docket No.: 9955/D01/AGS/LP | | Serial No.: 09/970,613 | |
| Applicants: Mark Holst, et al | | | | Filing Date: October 4, 2001 | | Group: 1764 | |

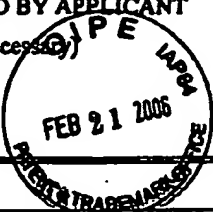
| U.S. Patent Documents | | | | | | | |
|-----------------------|-----------------|------------|------|-------|----------|----------------------------|--|
| *Examiner Initial | Document Number | Issue Date | Name | Class | Subclass | Filing Date If Appropriate | |
| | US-1 | | | | | | |
| | US-2 | | | | | | |
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| | US-8 | | | | | | |
| | US-9 | | | | | | |
| | US-10 | | | | | | |
| | US-11 | | | | | | |

| Foreign Patent Documents | | | | | | | Translation | |
|--------------------------|-----------------|----------------|----------|-------|----------|----------|-------------|--|
| | Document Number | Date | Country | Class | Subclass | Yes | No | |
| Td | F-1 | JP 03-65218 | 03/20/91 | Japan | | X | | |
| ↓ | F-2 | JP 07-10335 | 02/08/95 | Japan | | X | | |
| ↓ | F-3 | JP 04-209524 | 10/15/92 | Japan | | X | | |
| ↓ | F-4 | JP 59082927 A2 | 05/14/84 | Japan | | Abstract | | |
| Td | F-5 | WO 96/16720 A1 | 06/06/96 | PCT | | X | | |

| OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) | |
|--|--|
| Td | OT-1 Langan, John, et al., "Strategies for Greenhouse Gas Reduction", July 1996, Solid State Technology, pages 115-116, 118, 120, and 122. |
| ↓ | OT-2 Holmes, John T., et al., "Fluidized Bed Disposal of Fluorine", October 1967, I & EC Process Design and Development, Vol. 6, No. 4, pages 408-413. |
| Td | OT-3 Cady, George Hamilton, "Reaction of Fluorine with Water and with Hydroxides", Feb. 1935, J. Am. Chem. Soc., Vol. 57, pages 246-249. |

| | | | |
|----------|--|-----------------|----------|
| Examiner | | Date Considered | 11/28/01 |
|----------|--|-----------------|----------|

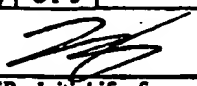
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

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|---|--|--|--|------------------------------------|--|---------------------------|--|
| U.S. Department of Commerce, Patent and Trademark Office LIST OF RELEVANT ART CITED BY APPLICANT (Use several sheets if necessary) | | | | Docket No.: 9955/D01/Y01/AGS/LP | | Serial No.: 09/970,613 | |
|  | | | | Applicants: Mark Holst et al. | | Group: 1764 | |
| | | | | Filing Date: October 4, 2001 | | | |

| U.S. Patent Documents | | | | | | | |
|-----------------------|-----------------|------------|----------|--------------|----------|----------------------------|--|
| *Examiner Initial | Document Number | Issue Date | Name | Class | Subclass | Filing Date If Appropriate | |
| To ↓ Th | US-1 | 4,296,079 | 10/20/81 | Hauser | | | |
| | US-2 | 4,935,212 | 06/19/90 | Eberhard | | | |
| | US-3 | 5,206,003 | 04/27/93 | Imoto et al. | | | |
| | US-4 | 5,292,704 | 03/08/94 | Lester | | | |
| | US-5 | 5,393,394 | 02/28/95 | Ikeda et al. | | | |
| | US-6 | 5,877,391 | 03/02/99 | Kanno et al. | | | |
| | US-7 | | | | | | |
| | US-8 | | | | | | |
| | US-9 | | | | | | |
| | US-10 | | | | | | |
| | US-11 | | | | | | |

| Foreign Patent Documents | | | | | | | Translation | |
|--------------------------|---------------|----------|-------|----------|-----|----|-------------|--|
| Document Number | Date | Country | Class | Subclass | Yes | No | | |
| To F-1 | EP 0861683 A2 | 09/02/98 | EPO | | X | | | |
| To F-2 | EP 0885648 A1 | 12/23/98 | EPO | | X | | | |
| | F-3 | | | | | | | |
| | F-4 | | | | | | | |
| | F-5 | | | | | | | |

| OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) | |
|--|---|
| To | OT-1 "Catalytic Decomposition System", Hitachi America, Ltd. Semiconductor Equipment Group- SCDS Gas Abatement Systems, < http://www.hitachi.com/semiequipment/products/scds.html >, pages 1-2, printed on 4/21/99. |
| ↓ | OT-2 "Kanken Techno detoxifier KT 1000 Venus", Crystec Technology Trading GmbH, < http://www.crystec.com/ktcvenue.htm >, pages 1-4, printed on 7/27/99. |
| Th | OT-3 |

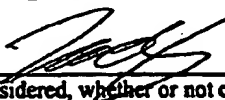
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| Examiner  | Date Considered 7/13/06 |
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

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| FORM PTO-1449 | | US Dept. of Commerce Patent and Trademark Office | | ATTORNEY DOCKET NO. E-163 CON-DIV | | SERIAL NO. TBA | |
| INFORMATION DISCLOSURE STATEMENT (use several sheets if necessary) | | | | APPLICANT Holst et al. | | | |
| | | | | FILING DATE Herewith | | GROUP Not assigned | |
| | | | | | | | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER INITIAL | | PATENT NUMBER | ISSUE DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
| Td | BL | 4,519,999 | May 28 1995 | Coleman | | | |
| | BM | 5,271,908 | Dec 21 1993 | Shiban et al. | | | |
| | BN | 5,914,091 | Jun 22 1999 | Holst et al. | | | |
| | BO | 5,693,293 | Dec 2 1997 | Reichardt et al. | | | |
| To | BP | 4,886,444 | Dec 12 1989 | Hirase et al. | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | | DOCUMENT NUMBER | PUBLICATION DATE | COUNTRY | CLASS | SUBCLAS S | TRANSLATION YES NO |
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| OTHER DOCUMENTS (Including Author, Title, Journal-Date, Page Number, Etc.) | | | | | | | |
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| EXAMINER | | | | | DATE CONSIDERED 2/11/95 | | |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant. | | | | | | | |

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| FORM PTO-1449 | | US Dept. of Commerce Patent and Trademark Office | | ATTORNEY DOCKET NO. E-163 CON-DIV | | | SERIAL NO. TBA | |
| INFORMATION DISCLOSURE STATEMENT (use several sheets if necessary) | | | | APPLICANT Holst et al. | | | | |
| | | | | FILING DATE Hrewith | | | GROUP Not assigned | |
| | | | | | | | | |
| U.S. PATENT DOCUMENTS | | | | | | | | |
| EXAMINER INITIAL | PATENT NUMBER | ISSUE DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE | | |
| TJ | AU 5,599,508 | Feb 4 1997 | Martinelli | | | | | |
| | AV 5,252,007 | Oct 12 1993 | Klinzing | | | | | |
| | AW 4,719,088 | Jan 12 1988 | Itoh et al | | | | | |
| | AX 4,083,607 | Apr 11 1978 | Mott | | | | | |
| | AY 4,986,838 | Jan 22 1991 | Johnsgard | | | | | |
| | AZ 5,510,093 | Apr 23 1996 | Bartz et al. | | | | | |
| V | BA 5,891,404 | Apr 6 1999 | Ibaraki et al. | | | | | |
| TJ | BB 5,800,792 | Sep 1 1998 | Ibaraki et al. | | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | |
| DOCUMENT NUMBER | PUBLICATION DATE | COUNTRY | CLASS | SUBCLAS S | TRANSLATION YES NO | | | |
| BC WO 99/02921 | Jan 21, 1999 | PCT | | | Yes | | | |
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| OTHER DOCUMENTS (Including Author, Title, Journal-Date, Page Number, Etc.) | | | | | | | | |
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| FORM PTO-1449 | | US Dept. of Commerce Patent and Trademark Office | | ATTORNEY DOCKET NO. E-163 CON-DIV | | SERIAL NO. TBA | |
|---|---|---|---------------------|---|-----------------|-----------------------|-------------------------------|
| INFORMATION DISCLOSURE STATEMENT (use several sheets if necessary) | | | | APPLICANT Holst et al. | | | |
| | | | | FILING DATE Herewith | | GROUP Not Assigned | |
| | | | | 1c978 U.S. PTO 09/970613 10/04/01 | | | |
| U.S. PATENT DOCUMENTS | | | | | | | |
| EXAMINER INITIAL | | PATENT NUMBER | ISSUE DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
| TD | AA | 5,649,985 | Jul 22 1997 | Imamura | | | |
| | AB | 5,716,428 | Feb 10 1998 | Imamura | | | |
| | AC | 3,898,040 | Aug 5 1975 | Tabak | | | |
| | AD | 5,009,869 | Apr 23 1991 | Weinberg et al | | | |
| | AE | 5,160,707 | Nov 3 1992 | Murray et al | | | |
| | AF | 5,533,890 | Jul 9 1992 | Holst et al | | | |
| | AG | 4,908,191 | Mar 13 1990 | Boldish et al | | | |
| | AH | 5,603,905 | Feb 18 1997 | Bartz et al | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | |
| | | DOCUMENT NUMBER | PUBLICATION DATE | COUNTRY | CLASS | SUBCLAS S | TRANSLATION YES NO |
| | AI | JP 03-65218 | Mar 20 1991 | Japan | | | Y |
| | AJ | JP 07-10335 | Oct 15 1992 | Japan | | | Y |
| | AK | JP 04-209524 | Oct 15 1992 | Japan | | | Y |
| | AL | WO 9616720 | Jun 6 1996 | WO | | | NA |
| | A M | JP 59082927 | May 14, 1984 | Japan | | | Abstract only |
| OTHER DOCUMENTS (Including Author, Title, Journal-Date, Page Number, Etc.) | | | | | | | |
| AN | Langan, J., "Strategies for Greenhouse Gas Reduction", <i>Solid State Technology</i> July, 115 (1996) | | | | | | |
| AO | Holmes, J.T., et al., "Fluidized Bed Disposal of Fluorine", <i>I&EC Process Design and Development</i> , Vol. 6, No. 4, pg 411 (1967) | | | | | | |
| AP | Cady, G. H., "Reaction of Fluorine with Water and with Hydroxides", <i>J. Am. Chem. Soc.</i> Vol. 57, pg 246, (1935) | | | | | | |
| AQ | Smiley, S.H. et al., "Continuous Disposal of Fluorine", <i>Industrial and Engineering Chemistry</i> , Vol. 46, pg 244 (1954) | | | | | | |
| AR | Streng A.G., "The Fluorine Steam Flame and Its Characteristics", <i>Combustion Flame</i> , Vol. 6, pg 89 (1962) | | | | | | |
| AS | Hardwick, Steven J., et al., "Waste minimization in semiconductor processing", <i>Mater. Res. Soc. Symp. Proc.</i> , 344, pg 273, (1994) | | | | | | |
| AT | Hayakawa, Saburo, "Silane Gas Scrubber", <i>Koatsu Gasu</i> , 24(7), pg 371-9, (1987) | | | | | | |
| Continue on Page 2 | | | | | | | |
| EXAMINER | | | | | DATE CONSIDERED | | |
|  | | | | | 2/11/05 | | |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant. | | | | | | | |